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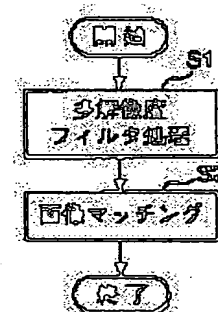
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## (54) MULTIPLE RESOLUTION FILTER PROCESSING METHOD AND IMAGE MATCHING METHOD CAPABLE OF UTILIZING THE METHOD

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide the method capable of satisfactorily and automatically acquiring an image characteristic and a correspondence point between images.

SOLUTION: A multiple resolution filter that is called a singular point filter is introduced. The filter extracts two kinds of saddle points, i.e. a maximal point and a minimal point of luminance in every four pixels of  $2 \times 2$  vertically and horizontally and generates a new image that has low resolution in each kind of a singular point. First, the multiple resolution filter layers a start point image and an end point image (S1). Next, matching is taken between a start point hierarchical image and an end point hierarchical image (S2).



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